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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/643,622	08/18/2003	Eugene Feng	2102397-992800	4461	
26379 7.	26379 7590 · 06/02/2005			EXAMINER	
	RUDNICK GRAY CA SITY AVENUE	FAROOQ, MOHAMMAD O			
	O, CA 94303-2248		ART UNIT	PAPER NUMBER	
			2182		

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)			
Office Action Summary		10/643,622	FENG, EUGENE			
		Examiner	Art Unit			
		Mohammad O. Farooq	2182			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on <u>07 March 2005</u> .					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under E	ex parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims						
5)□ 6)⊠ 7)□	·= ··· ·					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on <u>18 August 2003</u> is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  PRIMARY EXAMINEN  ORDUR 2100						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary ( Paper No(s)/Mail Da				
3) 🛛 Inforr	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 8/18/03;3/7/05.		atent Application (PTO-152)			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Morzano et al. U.S. Pat. No. 5,805,931 in view of Pardillos et al. U.S. Pat. No. 5,367,646.
- 2. As to claim 1, Morzano et al. teach device, comprising:
- a decoding circuit for receiving communication signals received via the communication bus, for decoding the communication signals and for generating a plurality of protocol signals in response thereto (item 378, fig.10);
- a protocol select circuit for receiving said plurality of protocol signals (i.e. controller circuit; col. 14, lines 8-23).

an array of memory cells (i.e. SAMs; col. 14, lines 8-23); and

said protocol select circuit for configuring the controller circuit in response to the plurality of protocol signals (fig. 7-13; col. 14, lines 8-23).

Morzano et al. do not teach a control circuit for controlling the operation of said array of memory cells. Pardillos et al. teach a control circuit for controlling the operation of said array of memory cells (i.e. memory access controller; col. 21, line 50 – col. 22, line 29). However, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Morzano et al. and Pardillos et al. because that would provide the best use of microprocessor performance wherein it would not be limited by the existence of only one bus (col. 3, line 65 – col. 4, line 7).

- 3. Claims 2-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morzano et al. U.S. Pat. No. 5,805,931 in view of Pardillos et al. U.S. Pat. No. 5,367,646 further in view of Pereira et al. U.S. Pat. No. 6,542,391 B2.
- 4. As to claims 2-6, Morzano et al. teach volatile storage element (i.e. DRAM; item 52, fig. 3).

Neither Morzano et al. nor Pardillos et al. teach non-volatile storage element; and volatile storage element is a register, flip-flop, and SRAM. Pereira et al. teach non-volatile storage element; and volatile storage element is a register, flip-flop, and SRAM (col. 18, lines 17-25; col. 9, lines 4-27). However, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the combination of Morzano et al. and Pardillos et al. with Pereira et al. because that would provide memory blocks to store data words having a width determined according to a configuration value (col. 3, lines 3-12).

5. As to claim 7, Morzano et al. teach device comprising:

a decoding circuit for receiving the start field and for generating a plurality of protocol signals (item 378, fig. 10);

a protocol select circuit for receiving said plurality of protocol signals (i.e. controller circuit; col. 14, lines 8-23);

an array of memory cells (i.e. SAMs; col. 14, lines 8-23); and said protocol select circuit for configuring the controller circuit in response to the plurality of protocol signals (fig. 7-13; col. 14, lines 8-23).

Morzano et al. do not teach a control circuit for controlling the operation of said array of memory cells. Pardillos et al. teach a control circuit for controlling the operation of said array of memory cells (i.e. memory access controller; col. 21, line 50 – col. 22, line 29). However, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Morzano et al. and Pardillos et al. because that would provide the best use of microprocessor performance wherein it would not be limited by the existence of only one bus (col. 3, line 65 – col. 4, line 7).

Neither Morzano et al. nor Pardillos et al. teach non-volatile memory. Pereira et al. teach non-volatile memory (col. 18, lines 17-25). However, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the combination of Morzano et al. and Pardillos et al. with Pereira et al. because that would provide memory blocks to store data words having a width determined according to a configuration value (col. 3, lines 3-12).

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6. As to claim 8, neither Morzano et al. nor Pardillos et al. teach protocol select circuit is a flip-flop. Pereira et al. teach protocol select circuit is a flip-flop (col. 18, lines 17-25). However, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the combination of Morzano et al. and Pardillos et al. with Pereira et al. because that would provide memory blocks to store data words having a width determined according to a configuration value (col. 3, lines 3-12).

- 7. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Morzano et al. U.S. Pat. No. 5,805,931, Pardillos et al. U.S. Pat. No. 5,367,646 and Pereira et al. U.S. Pat. No. 6,542,391 B2 as applied to claims 2-8 above, and further in view of Alexander et al. U.S. Pat. No. 6,188,602 B1.
- 8. As to claim 9, neither Morzano et al. nor Pardillos et al. or Pereira et al. teach protocol for LPC communication and for FWH communication. Alexander et al. teach protocol for LPC communication (col. 2, lines 53-67) and for FWH communication (col. 3, lines 50 61).

However, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the combination of Morzano et al., Pardillos et al. and Pereira et al. with Alexander et al. because that would provide flash memory to be updated during normal operation of the computer system (abstract).

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad O. Farooq whose telephone number is (571) 272-4144. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin can be reached on (571) 272-4146. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FRITZELEMING
PRIMARY EXAMINER
GROUP 2100

Mohammad O. Farooq May 24, 2005